## IN THE CLAIMS

Please substitute claims 1-209 with the following:

1. (Previously Presented) A data providing system for distributing content data from a data providing apparatus to a data processing apparatus, wherein

said data providing apparatus distributes a module storing the content data encrypted by using content key data, encrypted content key data, and an encrypted usage control policy data indicating handling of said content data to said data processing apparatus and

said data processing apparatus decrypts said content key data and said usage control policy data stored in said distributed module and determines the handling of said content data based on the related decrypted usage control policy data,

wherein a management apparatus manages said data providing apparatus and said data processing apparatus,

wherein said data providing apparatus sends said usage control policy data and requests said management apparatus to certify legitimacy of said usage control policy data and said management apparatus registers and services said usage control policy data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus.

2. (Original) A data providing system as set forth in claim 1, wherein:

said data providing apparatus distributes said module storing said content key data and said usage control policy data encrypted using distribution key data to said data processing apparatus and

said data processing apparatus decrypts said content key data and said usage control policy data stored in said distributed module using said distribution key data.

- 3. (Previously Presented) A data providing system as set forth in claim 2, wherein said management apparatus manages said distribution key data and distributes said distribution key data to said data providing apparatus and said data processing apparatus.
- 4. (Original) A data providing system as set forth in claim 1, wherein said data providing apparatus generates its own signature data for at least one of said content key data and said usage control policy and distributes said module storing said generated signature data to said data processing apparatus.
- 5. (Original) A data providing system as set forth in claim 4, wherein said data providing apparatus generates said signature data using its own secret key data and distributes said module storing public key data corresponding to said secret key data to said data processing apparatus.
  - 6. (Previously Presented) A data providing system as set forth in claim 5,

wherein said management apparatus prepares public key certificate data certifying the legitimacy of said public key data, wherein

said data providing apparatus distributes said module storing said public key certificate data to said data processing apparatus.

- 7. (Original) A data providing system as set forth in claim 1, wherein said data providing apparatus distributes
  - a first file storing said content data and
  - a second file storing said content key data and said usage control policy

- 8. (Original) A data providing system as set forth in claim 7, wherein said data providing apparatus generates signature data using its own secret key data for the first file and the second file and distributes said module storing said generated signature data to said data processing apparatus.
- 9. (Original) A data providing system as set forth in claim 8, wherein said data processing apparatus distributes said module storing public key data corresponding to said secret key data to said data processing apparatus.
- 10. (Original) A data providing system as set forth in claim 1, wherein said data providing apparatus performs mutual authentication with said data processing apparatus, encrypts said module using session key data obtained by said mutual authentication, and transmits said encrypted module to said data processing apparatus.
- 11. (Original) A data providing system as set forth in claim 1, wherein said data providing apparatus generates a storage medium storing said module.
- 12. (Original) A data providing system as set forth in claim 1, wherein said data processing apparatus determines at least one of a purchase mode and usage mode of said content data based on said usage control policy.
- 13. (Original) A data providing system as set forth in claim 1, wherein said data processing apparatus outputs said decrypted content key data and said encrypted content data to a decryption apparatus.

14. (Original) A data providing system as set forth in claim 9, wherein said data processing apparatus verifies the legitimacy of signature data stored in said module using public key data stored in said module.

15. (Original) A data providing system as set forth in claim 3, wherein:

said data processing apparatus determines at least one of a purchase mode and usage mode of distributed content data based on usage control policy data and transmits log data indicating a log of at least said determined purchase mode and usage mode and

said management apparatus performs profit distribution processing for distributing profit obtained accompanied with said purchase and said usage of said content data in said data processing apparatus to related parties of said data providing apparatus based on said received log data.

- 16. (Original) A data providing system as set forth in claim 1, wherein said data processing apparatus is comprised of a module making it difficult for the processing content, predetermined data stored in an internal memory, and data being processed from being monitored and tampered with from the outside.
- 17. (Original) A data processing apparatus utilizing content data distributed from a data providing apparatus, which

receives a module storing content data encrypted by using content key data, encrypted content key data, and encrypted usage control policy data indicating the handling of said content data from said data providing apparatus, decrypts said content key data and said usage control policy data stored in the related received module, and determines the handling of said content data based on the related decrypted usage control policy data.

18. (Previously Presented) A data providing system comprising:

a data providing apparatus that provides a first module storing content data encrypted by using content key data, encrypted content key data, and encrypted usage control policy data indicating the handling of said content data to said data distribution apparatus,

a data distribution apparatus that distributes a second module storing said encrypted content data, content key data, and usage control policy data stored in said provided first module to said data processing apparatus,

a data processing apparatus that decrypts said content key data and said usage control policy data stored in said distributed second module and determines the handling of said content data based on the related decrypted usage control policy data, and

a management apparatus that manages said data providing apparatus and said data processing apparatus,

wherein said data providing apparatus sends said usage control policy data and requests to said management apparatus to certify legitimacy of said usage control policy data, and wherein said management apparatus registers and serves said usage control policy data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus.

- 19. (Original) A data providing system as set forth in claim 18, wherein said data distribution apparatus distributes a module storing price data showing a price of said content data to said data processing apparatus.
  - 20. (Original) A data providing system as set forth in claim 18, wherein:

said data providing apparatus provides said first module storing said content key data and said usage control policy data encrypted using distribution key data to said data distribution apparatus and

said data processing apparatus decrypts said content key data and said usage control policy data stored in said distributed second module using said distribution key data.

- 21. (Previously Presented) A data providing system as set forth in claim 20, wherein said management apparatus manages said distribution key data and distributes said distribution key data to said data providing apparatus and said data processing apparatus.
  - 22. (Original) A data providing system as set forth in claim 20, wherein

said data providing apparatus generates its own signature data for at least one of said content key data and said usage control policy and provides said first module storing said generated signature data and storing a third module encrypted using said distribution key data to said data distribution apparatus and

said data distribution apparatus stores said provided third module in said second module and distributes it to said data processing apparatus.

- 23. (Original) A data providing system as set forth in claim 22, wherein said data providing apparatus generates said signature data using its own secret key data and provides said third module storing public key data corresponding to said secret key data to said data distribution apparatus.
  - 24. (Previously Presented) A data providing system as set forth in claim 23,

wherein said management apparatus prepares public key certificate data certifying the legitimacy of said public key data, wherein

said data providing apparatus provides said first module storing said third module storing said public key certificate data to said data distribution apparatus.

- 25. (Original) A data providing system as set forth in claim 18, wherein said data providing apparatus provides
  - a first file storing said content data and
  - a second file storing said content key data and said usage control policy

to said data distribution apparatus.

- 26. (Original) A data providing system as set forth in claim 25, wherein said data providing apparatus generates signature data using its own secret key data for the first file and the second file and provides said first module storing said generated signature data to said data distribution apparatus.
- 27. (Original) A data providing system as set forth in claim 25, wherein said data processing apparatus provides said first module storing public key data corresponding to said secret key data to said data distribution apparatus.
- 28. (Original) A data providing system as set forth in claim 19, wherein said data distribution apparatus generates signature data using its own secret key data for said price data and stores said signature data in said second module.
- 29. (Original) A data providing system as set forth in claim 28, wherein said data providing apparatus provides said second module storing public key data corresponding to its own secret key data to said data processing apparatus.

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30. (Original) A data providing system as set forth in claim 26, wherein said data

distribution apparatus verifies the signature data of said first file and said second file using public

key data of said data providing apparatus.

31. (Original) A data providing system as set forth in claim 25, wherein said data

providing apparatus provides said first module storing link data showing a linkage of said first

file and said second file to said data distribution apparatus.

32. (Original) A data providing system as set forth in claim 18, wherein said data

distribution apparatus performs mutual authentication with said data processing apparatus,

encrypts said second module using session key data obtained by said mutual authentication, and

transmits said encrypted second module to said data processing apparatus.

33. (Original) A data providing system as set forth in claim 18, wherein said data

providing apparatus generates a storage medium storing said module.

34. (Original) A data providing system as set forth in claim 18, wherein said data

processing apparatus determines at least one of a purchase mode and usage mode of said content

data based on said usage control policy.

35. (Original) A data providing system as set forth in claim 18, wherein said data

processing apparatus outputs said decrypted content key data and said encrypted content data to a

decryption apparatus.

36. (Original) A data providing system as set forth in claim 29, wherein said data

processing apparatus verifies the legitimacy of signature data stored in said second module using

public key data stored in said second module.

37. (Original) A data providing system as set forth in claim 21, wherein:

said data processing apparatus determines at least one of a purchase mode and usage

mode of distributed content data based on usage control policy data and transmits log data

indicating a log of at least said determined purchase mode and usage mode and

said management apparatus performs profit distribution processing for distributing profit

obtained accompanied with said purchase and said usage of said content data in said data

processing apparatus to related parties of said data providing apparatus based on said received

log data.

38. (Original) A data providing system as set forth in claim 18, wherein said data

processing apparatus is comprised of a module making it difficult for the processing content,

predetermined data stored in an internal memory, and data being processed from being

monitored and tampered with from the outside.

39. (Previously Presented) A data providing system comprising:

a data providing apparatus that provides a first module storing content data encrypted by

using content key data, encrypted content key data, and encrypted usage control policy data

indicating the handling of said content data to said plurality of data distribution apparatuses,

a first data distribution apparatus that distributes the second module storing said

encrypted content data, content key data, and usage control policy data stored in said provided

first module to said data processing apparatus,

a second data distribution apparatus that distributes a third module storing said encrypted

content data, content key data, and usage control policy data stored in said provided first module

to said data processing apparatus,

a data processing apparatus that decrypts said content key data and said usage control

policy data stored in said distributed second module and said third module and determines the

handling of said content data based on the related decrypted usage control policy data, and

a management apparatus that manages said data providing apparatus and said data

processing apparatus,

wherein said data providing apparatus sends said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus registers and serves said usage control policy data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus.

40. (Previously Presented) A data providing system comprising:

a first data providing apparatus that provides a first module storing first content data

encrypted by using first content key data, encrypted first content key data, and encrypted first

usage control policy data indicating the handling of said first content data to said data

distribution apparatus,

a second data providing apparatus that provides a second module storing second content

data encrypted by using second content key data, encrypted second content key data, and

encrypted second usage control policy data indicating the handling of said second content data to

said data distribution apparatus,

a data distribution apparatus that distributes a third module storing said encrypted first

content data, said first content key data, and said first usage control policy data stored in said

provided first module and said encrypted second content data, said second content key data, and

said second usage control policy data stored in said provided second module to said data

processing apparatus,

a data processing apparatus that decrypts said first content key data and said first usage

control policy data stored in said distributed third module, determines the handling of said first

content data based on the related decrypted first usage control policy data, decrypts said second

content key data and said second usage control policy data stored in said distributed third

module, and determines the handling of said second content data based on the related decrypted

second usage control policy data, and

a management apparatus that manages said first data providing apparatus and said data

processing apparatus,

wherein said first data providing apparatus sends said first usage control policy data and

requests to said management apparatus to certify legitimacy of said first usage control policy

data, and wherein said management apparatus registers and serves said first usage control policy

data from said first data providing apparatus, and certifies the legitimacy of said first usage

control policy data in response to a request from said first data providing apparatus.

41. (Original) A data providing apparatus for distributing content data to a data

processing apparatus for using the content data, which

distributes a module storing content data encrypted by using the content key data,

encrypted content key data, and encrypted usage control policy data indicating the handling of

said content data to said data processing apparatus.

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42. (Original) A data providing apparatus as set forth in claim 41 preparing said

usage control policy and distributing said module storing said generated usage control policy to

said data processing apparatus.

43. (Original) A data providing apparatus as set forth in claim 41, which distributes

said module storing said content key data and said usage control policy data encrypted using

distribution key data to said data processing apparatus.

44. (Original) A data providing apparatus as set forth in claim 43, which encrypts

said content key data Kc and said usage control policy data using said distribution key data

issued by a predetermined authority manager.

45. (Original) A data providing apparatus as set forth in claim 41, which generates its

own signature data for at least one of said content data, content key data, and usage control

policy data and distributes said module storing said generated signature data to said data

processing apparatus.

46. (Original) A data providing apparatus as set forth in claim 45, which generates

said signature data using its own secret key data and distributes said module storing public key

data corresponding to said secret key data to said data processing apparatus.

47. (Original) A data providing apparatus as set forth in claim 46, which distributes

said module storing public key certificate data certifying the legitimacy of said public key data to

said data processing apparatus.

48. (Original) A data providing apparatus as set forth in claim 41, which distributes:

a first file storing said content data and

a second file storing said content key data and said usage control policy data

to said data processing apparatus.

- 49. (Original) A data providing apparatus as set forth in claim 48, which generates signature data using its own secret key data for said first file and said second file and distributes said module storing said generated signature data to said data processing apparatus.
- 50. (Original) A data providing apparatus as set forth in claim 49, which distributes said module storing public key data corresponding to said secret key data to said data processing apparatus.
- 51. (Original) A data providing apparatus as set forth in claim 41, which performs mutual authentication with said data processing apparatus, encrypts said module using session key data obtained by said mutual authentication, and transmits said encrypted module to said data processing apparatus.
- 52. (Original) A data providing apparatus as set forth in claim 41, which generates a storage medium storing said module.
- 53. (Original) A data providing apparatus as set forth in claim 41, which defines said module by an application layer.
- 54. (Original) A data providing apparatus as set forth in claim 53, which uses a presentation layer and transport layer under said application layer as distribution protocol for distributing said module to said data processing apparatus.
- 55. (Original) A data providing apparatus as set forth in claim 41, which defines said module by a format not dependent on a medium for distributing said module to said data processing apparatus.

56. (Original) A data providing method for distributing data from a data providing apparatus to a data processing apparatus, comprising the steps of:

distributing a module storing content data encrypted by using content key data, encrypted content key data, and encrypted usage control policy data indicating the handling of said content data from said data providing apparatus to said data processing apparatus and

decrypting said content key data and said usage control policy data stored in said distributed module and determining the handling of said content data based on the related decrypted usage control policy data at said data processing apparatus.

57. (Original) A data providing method as set forth in claim 56, further comprising the steps of:

distributing said module storing said content key data and said usage control policy data encrypted using distribution key data from said data providing apparatus to said data processing apparatus and

decrypting said content key data and said usage control policy stored in said distributed module using said distribution key data.

58. (Original) A data providing method using a data providing apparatus, data distribution apparatus, and data processing apparatus, comprising the steps of:

providing a first module storing content data encrypted by using content key data, encrypted content key data, and encrypted usage control policy data indicating the handling of said content data from said data providing apparatus to said data distribution apparatus,

distributing a second module storing said encrypted content data, content key data, and

usage control policy data stored in said provided first module from said data distribution

apparatus to said data processing apparatus, and

decrypting said content key data and said usage control policy data stored in said

distributed second module and determining the handling of said content data based on the related

decrypted usage control policy data at said data processing apparatus.

59. (Original) A data providing method as set forth in claim 58, which distributes

said second module storing price data showing a price of said content data from said data

distribution apparatus to said data processing apparatus.

60. (Original) A data providing method using a data providing apparatus, at least a

first data distribution apparatus and second data distribution apparatus, and a data processing

apparatus, comprising the steps of:

providing a first module storing content data encrypted by using content key data,

encrypted content key data, and encrypted usage control policy data indicating the handling of

said content data from said data providing apparatus to said data distribution apparatuses,

distributing a second module storing said encrypted content data, content key data, and

usage control policy data stored in said provided first module from said first data distribution

apparatus to said data processing apparatus,

distributing a third module storing said encrypted content data, content key data, and

usage control policy data stored in said provided first module from said second data distribution

apparatus to said data processing apparatus, and

decrypting said content key data and said usage control policy data stored in said

distributed second module and said third module and determining the handling of said content

data based on the related decrypted usage control policy data at said data processing apparatus.

61. (Original) A data providing method using at least a first data providing apparatus

and second data providing apparatus, a data distribution apparatus, and a data processing

apparatus, comprising the steps of:

providing a first module storing first content data encrypted by using first content key

data, encrypted first content key data, and encrypted first usage control policy data indicating the

handling of said first content data from said first data providing apparatus to said data

distribution apparatus,

providing a second module storing second content data encrypted by using second

content key data, encrypted second content key data, and encrypted second usage control policy

data indicating the handling of said second content data from said second data providing

apparatus to said data distribution apparatus,

distributing a third module storing said encrypted first content data, said first content key

data, and said first usage control policy data stored in said provided first module and said

encrypted second content data, said second content key data, and said second usage control

policy data stored in said provided second module from said data distribution apparatus to said

data processing apparatus, and

decrypting said first content key data and said first usage control policy data stored in

said distributed third module, determining the handling of said first content data based on the

related decrypted first usage control policy data, decrypting said second content key data and

said second usage control policy data stored in said distributed third module, and determining the

handling of said second content data based on the related decrypted second usage control policy

data at said data processing apparatus

62. (Original) A data providing method for distributing content data to a data

processing apparatus using said content data, which

distributes a module storing content data encrypted using content key data, said encrypted

content key data, and encrypted usage control policy data showing the handling of said content

data.

63. (Original) A data providing method as set forth in claim 62, which distributes

said module storing said content key data and said usage control policy data encrypted using

distribution key data to said data processing apparatus.

64. (Original) A data providing method as set forth in claim 62, which generates its

own signature data for at least one of said content data, said content key data, and said usage

control policy data and distributes said module storing said generated signature data to said data

processing apparatus.

65. (Original) A data providing method as set forth in claim 64, which generates said

signature data using its own secret key data and distributes said module storing public key data

corresponding to said secret key data to said data processing apparatus.

66. (Original) A data providing method as set forth in claim 65, which distributes

said module storing public key certificate data certifying the legitimacy of said public key data to

said data processing apparatus.

67. (Original) A data providing method as set forth in claim 62, which distributes:

a first file storing said content data and

a second file storing said content key data and said usage control policy data

to said data processing apparatus.

68. (Original) A data providing method as set forth in claim 67, which generates

signature data using its own secret key data for said first file and said second file and stores said

generated signature data.

69. (Original) A data providing method as set forth in claim 68, which distributes a

module storing public key data corresponding to said secret key data to said data processing

apparatus.

70. (Original) A data providing method as set forth in claim 62, which performs

mutual authentication with said data processing apparatus, encrypts said module using session

key data obtained by said mutual authentication, and transmits said encrypted module to said

data processing apparatus.

71. (Original) A data providing method as set forth in claim 62, which generates a

storage medium storing said module.

72. (Previously Presented) A data providing system comprising:

a data providing apparatus that distributes content data and usage control policy data

indicating the handling of the related content data to said data processing apparatus,

a data processing apparatus that uses said distributed content data based on said

distributed usage control policy data, and

a management apparatus that manages said data providing apparatus and said data

processing apparatus,

response to a request from said data providing apparatus.

wherein said data providing apparatus sends said usage control policy data and requests to said management apparatus to certify legitimacy of said usage control policy data, and wherein said management apparatus registers and serves said usage control policy data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in

73. (Original) A data providing system as set forth in claim 72, wherein said data providing apparatus makes said request by transmitting to said management apparatus a module storing said usage control policy data, its own identifier, and signature data generated using its own secret key data for at least said usage control policy data.

## 74. (Original) A data providing system as set forth in claim 73, wherein

said management apparatus distributes public key certificate data for certifying the legitimacy of the public key data corresponding to said secret key data of said data providing apparatus to said data providing apparatus together with the signature data generated by using its own secret key data, and

said data providing apparatus makes a request by transmitting a module storing said public key certificate data, said usage control policy data, its own identifier, and said signature data to said management apparatus.

## 75. (Original) A data providing system as set forth in claim 72, wherein:

said management apparatus manages distribution key data, distributes the related distribution key data to said data processing apparatus, generates signature data generated by using its own secret key data with respect to said usage control policy data in response to a request from said data providing apparatus, encrypts a module storing the related generated

signature data and said usage control policy data by using said distribution key data, and transmits the same to said data providing apparatus,

said data providing apparatus distributes a module received from said management apparatus to said data processing apparatus, and

said data processing apparatus decrypts said module received from said data providing apparatus by using said distribution key data, verifies the legitimacy of said signature data stored in the related module by using the public key data of said management apparatus, and uses said distributed content data based on the usage control policy data stored in said module when it decides it is legitimate.

76. (Original) A data providing system as set forth in claim 72, wherein:

said data processing apparatus determines at least one of a purchase mode and usage mode of distributed content data based on usage control policy data and transmits log data indicating a log of at least said determined purchase mode and usage mode and

said management apparatus performs profit distribution processing for distributing profit obtained accompanied with said purchase and said usage of said content data in said data processing apparatus to related parties of said data providing apparatus based on said received log data.

- 77. (Previously Presented) A data providing system comprising:
- a data providing apparatus that encrypts content data by using content key data, distributes the related encrypted content data to said data processing apparatus,
- a data processing apparatus that decrypts said distributed content data by using said content key data and uses the related decrypted content data, and

a management apparatus that manages said data providing apparatus and said data processing,

wherein said data providing apparatus sends said usage control policy data and requests to said management apparatus to certify legitimacy of said usage control policy data, and wherein said management apparatus registers and serves said usage control policy data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus.

- 78. (Original) A data providing system as set forth in claim 77, wherein said data providing apparatus distributes a module storing said content data and said content key data to said data processing apparatus.
- 79. (Previously Presented) A management apparatus for managing a data providing apparatus for distributing content data and usage control policy data indicating the handling of the related content data and a data processing apparatus for using said distributed content data based on said distributed usage control policy data, which

registers and serves said usage control policy data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus.

80. (Original) A data providing system as set forth in claim 79, which manages public key data corresponding to secret key data of said data providing apparatus when receiving from said data providing apparatus said request using a module storing said usage control policy data, an identifier of said data providing apparatus, and signature data generated using secret key data of said data providing apparatus for at least said usage control policy data.

- 81. (Original) A data providing system as set forth in claim 80, which transmits
- public key certificate data certifying the legitimacy of said public key data to said data providing

apparatus.

82. (Previously Presented) A management apparatus for managing a data providing

apparatus for distributing content data and usage control policy data indicating the handling of

the related content data encrypted using content key data and a data processing apparatus for

using said distributed content data after decrypting said distributed content data using said

content key data based on said distributed usage control policy data, which

registers and serves said usage control policy data from said data providing apparatus,

and certifies the legitimacy of said content key data in response to a request from said data

providing apparatus.

- 83. (Previously Presented) A data providing system comprising:
- a data providing apparatus that provides content data and usage control policy data

indicating the handling of the related content data to said data distribution apparatus

a data distribution apparatus that distributes said provided content data and said usage

control policy data to said data processing apparatus,

a data processing apparatus that uses said distributed content data based on said

distributed usage control policy data, and

a management apparatus that manages said data providing apparatus and said data

processing apparatus,

wherein said data providing apparatus sends said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus registers and serves said usage control policy data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus.

- 84. (Original) A data providing system as set forth in claim 83, wherein said data providing apparatus makes said request by transmitting to said management apparatus a module storing an identifier of said content data, said usage control policy data, and signature data generated using its own secret key data for at least said usage control policy data.
- 85. (Original) A data providing system as set forth in claim 84, wherein said management apparatus distributes public key certificate data certifying the legitimacy of public key data corresponding to said secret key data of said data providing apparatus together with signature data generated using its own secret key data to said data providing apparatus.
  - 86. (Original) A data providing system as set forth in claim 84, wherein said

said management apparatus manages distribution key data, distributes the related distribution key data to said data processing apparatus, generates signature data generated by using its own secret key data with respect to said usage control policy data in response to a request from said data providing apparatus, encrypts a module storing the related generated signature data and said usage control policy data by using said distribution key data, and transmits the same to said data providing apparatus,

said data providing apparatus distributes a module received from said management apparatus to said data distribution apparatus, and

said data processing apparatus decrypts said module distributed said data distribution apparatus, verifies the legitimacy of said signature data stored in the related module by using the

public key data of said management apparatus, and uses said distributed content data based on the usage control policy data stored in said module when it decides it is legitimate.

87. (Original) A data providing system as set forth in claim 83, wherein:

said data distribution apparatus distributes price data indicating the price of said distributed content data to said data processing apparatus and

said management apparatus certifies the legitimacy of said price data in response to a request from said data distribution apparatus.

88. (Original) A data providing system as set forth in claim 83, wherein

said data processing apparatus determines at least one of a purchase mode and usage mode of distributed content data based on said usage control policy data and transmits log data indicating a log of at least said determined purchase mode and usage mode to said management apparatus and

said management apparatus performs profit distribution processing for distributing profit obtained accompanied with said purchase and said usage of said content data in said data processing apparatus to related parties of said data providing apparatus and said data distribution apparatus based on said received log data.

89. (Original) A data providing system as set forth in claim 83, wherein

said data processing apparatus has a first module communicating with said data distribution apparatus and a second module determining at least one of a purchase mode and usage mode of distributed content data based on said distributed usage control policy data and transmitting log data indicating a log of at least said determined purchase mode and usage mode to said management apparatus and

said management apparatus manages the data providing apparatus, data distribution

apparatus, and data processing apparatus and performs profit distribution processing for

distributing profit obtained accompanied with said data processing apparatus receiving

distribution of said content data and purchasing and using said content data to related parties of

said data providing apparatus and said data distribution apparatus based on said received log data

received from said second module.

90. (Previously Presented) A data providing system comprising:

a data providing apparatus that encrypts content data by using content key data, provides

related encrypted content data, and usage control policy data indicating the handling of the

related content data to said data distribution apparatus,

a data distribution apparatus that distributes said provided content data and said usage

control policy data to said data processing apparatus,

a data processing apparatus that uses said content data containing the decryption of said

content data using said content key data based on said distributed usage control policy data, and

a management apparatus that manages said data providing apparatus and said data

processing apparatus,

wherein said data providing apparatus requests to said management apparatus to certify

legitimacy of said content key data, and wherein said management apparatus registers and serves

said usage control policy data from said data providing apparatus, and certifies the legitimacy of

said content key data in response to a request from said data providing apparatus.

91. (Original) A data providing system as set forth in claim 90, wherein said data

providing apparatus encrypts said content key data and provides a module storing said encrypted

content key data and encrypted content data to said data distribution apparatus.

92. (Previously Presented) A management apparatus for managing a data providing

apparatus for providing content data and usage control policy data indicating the handling of the

related content data, a data distribution apparatus for distributing said provided content data and

said usage control policy data, and a data processing apparatus for using said distributed content

data based on said distributed usage control policy data, which

registers and serves said usage control policy data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus.

93. (Original) A management apparatus as set forth in claim 92, which certifies the

legitimacy of said content key data in response to a request from said data providing apparatus

when encrypting said content data using content key data and providing it from said data

providing apparatus to said data distribution apparatus.

94. (Original) A management apparatus as set forth in claim 92, which certifies the

legitimacy of said price data in response to a request from said data distribution apparatus when

distributing said price data from said data distribution apparatus to said data processing apparatus

together with said content data and said usage control policy data.

95. (Previously Presented) A data providing method using a data providing

apparatus, data processing apparatus, and management apparatus, comprising the steps of:

using said distributed content data based on said distributed usage control policy data at said data processing apparatus,

registering and serving said usage control policy data from said data providing apparatus, and

certifying the legitimacy of said usage control policy data in said management apparatus in response to a request from said data providing apparatus.

96. (Previously Presented) A data providing method using a data providing apparatus, data processing apparatus, and management apparatus, comprising the steps of:

distributing content data encrypted by using content key data from said data providing apparatus to said data processing apparatus,

decrypting said distributed content data by using said content key data at said data processing apparatus,

registering and serving said usage control policy data from said data providing apparatus, and

certifying the legitimacy of said content key data in said management apparatus in response to a request from said data providing apparatus.

97. (Previously Presented) A data providing method using a data providing apparatus, data distribution apparatus, data processing apparatus, and management apparatus, comprising the steps of:

and

providing content data and usage control policy data indicating the handling of the related content data from said data providing apparatus to said data distribution apparatus,

distributing said provided content data and said usage control policy data from said data distribution apparatus to said data processing apparatus,

using said distributed content data based on said distributed usage control policy data at said data processing apparatus,

registering and serving said usage control policy data from said data providing apparatus, and

certifying the legitimacy of said usage control policy data in said management apparatus in response to a request from said data providing apparatus.

98. (Previously Presented) A data providing method using a data providing apparatus, data distribution apparatus, data processing apparatus, and management apparatus, comprising the steps of:

providing content data encrypted by using content key data and usage control policy data indicating the handling of the related content data from said data providing apparatus to said data distribution apparatus,

distributing said content data and said usage control policy data provided from said data distribution apparatus to said data processing apparatus,

using said content data containing the decryption of said content data using said content key data based on said distributed usage control policy data in said data processing apparatus,

registering and serving said usage control policy data from said data providing apparatus,

certifying the legitimacy of said content key data in said management apparatus in

response to a request from said data providing apparatus.

99. (Previously Presented) A data providing system comprising:

a data providing apparatus that distributes content data and usage control policy data

indicating the handling of the related content data to said data processing apparatus,

a data processing apparatus that determines at least one of a purchase mode and a usage

mode of said distributed content data based on said distributed usage control policy data and

transmits log data indicating the log of at least one of the related determined purchase mode and

usage mode to said management apparatus, and

a management apparatus that manages said data providing apparatus and said data

processing apparatus and performs profit distribution processing for distributing the profit

obtained accompanied with said purchase and said usage of said content data in said data

processing apparatus to related parties of said data providing apparatus based on received log

data,

wherein said data providing apparatus sends said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus registers and serves said usage control policy data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus.

100. (Original) A data providing system as set forth in claim 99, wherein

said data providing apparatus encrypts said content data using predetermined key data

and distributes it to said data processing apparatus,

said data processing apparatus decrypts said received content data using said key data, and

said management apparatus manages said key data.

101. (Original) A data providing system as set forth in claim 99, wherein

said data providing apparatus generates predetermined key data and registers said generated key data to said management apparatus,

said management apparatus manages said registered key data and transmits corresponding key data to said data processing apparatus when processing for purchasing of content data is performed in said data processing apparatus, and

said data processing apparatus decrypts said received content data using said received key data.

- 102. (Original) A data providing system as set forth in claim 100, wherein said data providing apparatus encrypts said key data and distributes a module storing said encrypted key data, encrypted content data, and said usage control policy data to said data processing apparatus.
  - 103. (Original) A data providing system as set forth in claim 102, wherein

said management apparatus manages distribution key data and distributes said distribution key data to said data providing apparatus and said data processing apparatus,

said data providing apparatus encrypts said key data and said usage control policy data using said distributed distribution key data, and

said data processing apparatus decrypts said key data and said usage control policy data using said distributed distribution key data.

- 104. (Original) A data providing system as set forth in claim 103, wherein said management apparatus distributes a plurality of distribution key data having predetermined terms of validity to said data providing apparatus and said data processing apparatus for exactly a predetermined period.
  - 105. (Original) A data providing system as set forth in claim 102, wherein

said data providing apparatus generates signature data for at least one of said encrypted content data and usage control policy data using its own secret key data and distributes a module storing said encrypted content data, said encrypted key data, said encrypted usage control policy data, and said signature data to said data processing apparatus,

said data processing apparatus verifies said signature data stored in said distributed module using public key data corresponding to said secret key data, and

said management apparatus manages said public key data.

- 106. (Original) A data providing system as set forth in claim 105, wherein said data providing apparatus distributes said module storing public key data corresponding to its own secret key data to said data processing apparatus.
- 107. (Original) A data providing system as set forth in claim 105, wherein said management apparatus distributes said module storing public key data corresponding to said secret key data of said data providing apparatus to said data processing apparatus.
  - 108. (Original) A data providing system as set forth in claim 99, wherein

said management apparatus distributes distribution key data to said data providing apparatus and said data processing apparatus,

said data providing apparatus encrypts said usage control policy using said distribution key data and distributes it to said data processing apparatus, and

said data processing apparatus decrypts said received usage control policy data using said distribution key data.

- 109. (Original) A data providing system as set forth in claim 100, wherein said management apparatus authenticates the legitimacy of at least one of said usage control policy data and said key data.
- 110. (Original) A data providing system as set forth in claim 99, wherein said management apparatus generates settlement claim data used when claiming settlement processing in accordance with said profit distribution processing, adds signature data based on its own secret key data to said settlement claim data, and transmits it to an apparatus performing said settlement processing or said data providing apparatus.
- 111. (Original) A data providing system as set forth in claim 99, wherein said management apparatus performs processing for registration of said data processing apparatus, manages said registered data processing apparatus, and performs profit distribution processing based on said log data received from said registered data processing apparatus.
- 112. (Original) A data providing system as set forth in claim 99, wherein said data processing apparatus determines a purchase mode of said distributed content data based on said usage control policy data, generates usage control status data in accordance with said determined purchase mode, and controls usage of said distributed content data based on said usage control status data.

113. (Original) A data providing system as set forth in claim 99, wherein said data

processing apparatus is comprised of a module making it difficult for the processing content,

predetermined data stored in an internal memory, and data being processed from being

monitored and tampered with from the outside.

114. (Previously Presented) A management apparatus for managing a data providing

apparatus for distributing content data and usage control policy data indicating the handling of

said content data and a data processing apparatus for determining at least one of a purchase mode

and usage mode of said distributed content data based on said distributed usage control policy

data and generating log data showing a log of at least one of said determined purchase mode and

usage mode, which

receives said log data from said data processing apparatus and performs profit

distribution processing for distributing the profit accompanied with said purchase and said usage

of said content data in said data processing apparatus to related parties of said data providing

apparatus based on said received log data,

wherein said management apparatus registers and serves said usage control policy data

from said data providing apparatus, and certifies the legitimacy of said usage control policy data

in response to a request from said data providing apparatus.

115. (Original) A management apparatus as set forth in claim 113, which manages key

data when distributing content data encrypted using predetermined key data from said data

providing apparatus to said data processing apparatus.

- (Original) A management apparatus as set forth in claim 114, which authenticates 116. the legitimacy of at least one of said usage control policy data and key data used when decrypting said content data.
- (Previously Presented) A data providing apparatus for receiving distribution of 117. content data and usage control policy data indicating the handling of the related content data from a data providing apparatus and transmitting log data to a management apparatus for performing profit distribution processing for distributing the profit obtained accompanied with the purchase and usage of the related distributed content data to related parties of said data providing apparatus based on predetermined log data, which

determines at least one of a purchase mode and usage mode of said distributed content data based on said distributed usage control policy data and transmits said log data indicating the log of the determined designation mode and usage mode to said management apparatus,

wherein said data providing apparatus sends said usage control policy data and requests to said management apparatus to certify legitimacy of said usage control policy data.

- (Original) A data providing apparatus as set forth in claim 117, which receives 118. said key data from said data providing apparatus when said content data is encrypted using predetermined key data.
- (Original) A data processing apparatus as set forth in claim 117, comprised of a 119. module making it difficult for the processing content, predetermined data stored in an internal memory, and data being processed from being monitored and tampered with from the outside.
  - (Previously Presented) A data providing system comprising: 120.

indicating the handling of the related content data to said data distribution apparatus,

a data distribution apparatus that distributes said provided content data and said usage

a data providing apparatus that provides content data and usage control policy data

control policy data to said data processing apparatus,

a data processing apparatus that has a first module for communicating with said data

distribution apparatus and a second module for determining at least one of a purchase mode and

usage mode of said distributed content data based on said distributed usage control policy data

and transmitting log data indicating the log of the related determined purchase mode and usage

mode to said management apparatus, and

a management apparatus that manages the data providing apparatus, data distribution

apparatus, and data processing apparatus and performs profit distribution processing for

distributing the profit obtained accompanied with said data processing apparatus receiving said

distribution of said content data and purchasing and using said content data to related parties of

said data providing apparatus and said data distribution apparatus based on said log data received

from said second module,

wherein said data providing apparatus sends said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus registers and serves said usage control policy data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus.

- 121. (Original) A data providing system as set forth in claim 120, wherein said data providing apparatus encrypts said content data using content key data and provides it to said data distribution apparatus.
- 122. (Original) A data providing system as set forth in claim 120, wherein said data distribution apparatus generates price data showing the price of said distributed content data and distributes said price data to said data processing apparatus.
  - 123. (Original) A data providing system as set forth in claim 120, wherein said data providing apparatus encrypts said content key data and said usage control policy

by using distribution key data and provides it to said data distribution apparatus,

said data processing apparatus decrypts said content key data and said usage control policy using said distribution key data, and

said management apparatus manages said distribution key data and distributes said distribution key data to said data providing apparatus and said data processing apparatus.

124. (Original) A data providing system as set forth in claim 123, wherein

said data providing apparatus generates first signature data for at least one of said encrypted content data, said encrypted content key data, and said encrypted usage control policy data using its own first secret key data and provides a first module storing said encrypted content data, said encrypted key data, said encrypted usage control policy data, and said first signature data to said data distribution apparatus,

said data distribution apparatus verifies said first signature data using first public key data corresponding to said first secret key data, then stores second signature data generated using its

own second secret key data in said first module to generate a second module and distributes said second module to said data processing apparatus,

said data processing apparatus verifies said first signature data stored in said distributed second module using said first public key data and verifies said second signature data stored in said distributed second module using second public key data corresponding to said second secret key data, and

said management apparatus manages said first public key data and said second public key data.

125. (Original) A data providing system as set forth in claim 124, wherein said data providing apparatus provides said first module storing said first public key data to said data distribution apparatus and

said data distribution apparatus distributes said second module storing said first public key data and said second public key data to said data processing apparatus.

- 126. (Original) A data providing system as set forth in claim 124, wherein said management apparatus distributes said first public key data and said second public key data to said data processing apparatus.
- 127. (Original) A data providing system as set forth in claim 120, wherein said data distribution apparatus distributes price data showing the price of said distributed content data to said data processing apparatus and

said management apparatus authenticates the legitimacy of the data of at least one of key data used when encrypting said content data and said price data.

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128. (Original) A data providing system as set forth in claim 120, wherein said data

distribution apparatus distributes to said data processing apparatus a module storing said

provided encrypted content data, said provided usage control policy data, said key data

encrypting said content data, and price data showing the price of said distributed content data.

129. (Original) A data providing system as set forth in claim 120, wherein said

management apparatus performs profit distribution processing for distributing profit obtained

accompanied with said data processing apparatus receiving distribution of said content data and

purchasing and using said content data to related parties of said data providing apparatus and

said data distribution apparatus, generates settlement claim data to be used when claiming

settlement, add its own signature data to said settlement claim data, and transmits this to an

apparatus for performing said settlement processing.

130. (Original) A data providing system as set forth in claim 129, wherein said

management apparatus transmits settlement report data showing the results of said profit

distribution processing to at least one of said data providing apparatus and said data distribution

apparatus.

131. (Original) A data providing system as set forth in claim 120, wherein said

management apparatus performs profit distribution processing for distributing profit obtained

accompanied with said data processing apparatus receiving distribution of said content data and

purchasing and using said content data to related parties of said data providing apparatus and

said data distribution apparatus, generates settlement claim data to be used when claiming

settlement, adds its own signature data to said settlement claim data, and transmits this to at least

one of said data providing apparatus and said service providing apparatus.

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132. (Original) A data providing system as set forth in claim 120, wherein said

management apparatus performs processing for registration of said data processing apparatus,

manages said registered data processing apparatus, and performs said profit distribution

processing based on said log data received from said registered data processing apparatus.

133. (Original) A data providing system as set forth in claim 120, wherein said data

processing apparatus determines at least one of a purchase mode and usage mode of said

distributed content data based on said usage control policy data, generates usage control status

data in accordance with said determined purchase mode and usage mode, and controls usage of

said distributed content data based on said usage control status data.

134. (Original) A data providing system as set forth in claim 120, wherein said second

module of said data processing apparatus is a module making it difficult for the processing

content, predetermined data stored in an internal memory, and data being processed from being

monitored and tampered with from the outside.

135. (Previously Presented) A management apparatus for managing a data providing

apparatus for providing content data and usage control policy data indicating the handling of the

related content data, a data distribution apparatus for distributing said provided content data and

said usage control policy data, and a data processing apparatus for determining at least one of a

purchase mode and usage mode of said distributed content data based on said distributed usage

control policy data and creating log data indicating the log of at least one of the related

determined purchase mode and usage mode, which

performs profit distribution processing for distributing the profit obtained accompanied

with said data processing apparatus receiving said distribution of said content data and

purchasing and using said content data to related parties of said data providing apparatus and

said data distribution apparatus based on said received log data,

registers and serves said usage control policy data from said data providing apparatus,

and

certifies the legitimacy of said usage control policy data in response to a request from

said data providing apparatus.

136. (Original) A management apparatus as set forth in claim 135, which manages

said key data when distributing said content data encrypted using predetermined content key data

from said data providing apparatus to said data processing apparatus.

137. (Original) A management apparatus as set forth in claim 136, which authenticates

the legitimacy of at least one of said usage control policy data and said content key data.

138. (Previously Presented) A data processing apparatus for receiving distribution of

content data and usage control policy data from a data distribution apparatus receiving the

provision of content data and usage control policy data indicating the handling of the related

content data from a data providing apparatus and transmitting log data to a management

apparatus for performing profit distribution processing for distributing the profit obtained

accompanied with the purchase and usage of said distributed content data to related parties of

said data providing apparatus and said data distribution apparatus based on predetermined log

data, which has

a first module for communicating with said data distribution apparatus and

a second module for determining at least one of a purchase mode and usage mode of said

distributed content data based on said distributed usage control policy data and transmitting log

data indicating the log of the related determined purchase mode and usage mode to said

management apparatus,

wherein said data providing apparatus sends said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus registers and serves said usage control policy data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus.

139. (Original) A data processing apparatus as set forth in claim 138, which is a

module making it difficult for the processing content, predetermined data stored in an internal

memory, and data being processed from being monitored and tampered with from the outside.

140. (Previously Presented) A data providing system comprising:

a data providing apparatus that provides content data and usage control policy data

indicating the handling of the related content data to said data distribution apparatus,

a data distribution apparatus that distributes said provided content data and said usage

control policy data to said data processing apparatus and performs charge processing concerning

the distribution of said content data based on a data distribution apparatus use purchase log data

received from said data processing apparatus,

a data processing apparatus that has a first module for creating the data distribution

apparatus use purchase log data indicating the log of the purchase of said content data distributed

from said data distribution apparatus and transmitting the same to said data distribution apparatus

and a second module for determining at least one of the purchase mode and the usage mode of

said distributed content data based on said distributed usage control policy data and transmitting

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a management apparatus use log data indicating the log of the related determined purchase mode

and usage mode to said management apparatus, and

a management apparatus that performs profit distribution processing for distributing the

profit obtained accompanied with said purchase and said usage of said content data in said data

processing apparatus to related parties of said data providing apparatus and said data distribution

apparatus based on said management apparatus use log data,

wherein said data providing apparatus sends said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus registers and serves said usage control policy data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus.

141. (Previously Presented) A data processing apparatus for receiving the distribution

of content data and usage control policy data indicating the handling of the related content data

from a data providing apparatus via a data distribution apparatus and transmitting said log data to

a management apparatus for performing profit distribution processing for distributing the profit

obtained accompanied with the purchase and usage of the related distributed content data to

related parties of said data providing apparatus and said data distribution apparatus based on said

management apparatus use log data, said data processing apparatus comprising,

a first module for creating data distribution apparatus use purchase log data indicating the

log of the purchase of said content data distributed from said data distribution apparatus and

transmitting the same to said data distribution apparatus and

and usage mode to said management apparatus,

a second module for determining at least one of a purchase mode and usage mode of said distributed content data based on said distributed usage control policy data and transmitting said management apparatus use log data indicating the log of the related determined purchase mode

wherein said data providing apparatus sends said usage control policy data and requests to said management apparatus to certify legitimacy of said usage control policy data, and wherein said management apparatus registers and serves said usage control policy data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus.

- 142. (Previously Presented) A data providing system comprising:
- a data providing apparatus that provides the content data to said data distribution apparatus and provides usage control policy data indicating the handling of said content data to said distribution apparatus,
- a data distribution apparatus that distributes said provided content data to said data processing apparatus,
  - a data processing apparatus that uses said distributed content data, and
- a management apparatus that manages operation of a data providing service by said data providing apparatus, said data distribution apparatus, and said data processing apparatus,

wherein said data providing apparatus sends said usage control policy data and requests to said management apparatus to certify legitimacy of said usage control policy data, and wherein said management apparatus registers and serves said usage control policy data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus.

143. (Previously Presented) A data providing system as set forth in claim 142,

wherein:

said data distribution apparatus distributes said provided content data and usage control

policy data to said data processing apparatus,

said data processing apparatus uses said distributed content data based on said distributed

usage control policy data, and

said management apparatus plays the role of a sub-certificate authority present

hierarchically under a route certificate authority, generates and manages public key certificate

data to be used when certifying the legitimacy of public key data corresponding to secret key

data to be used at said registered data providing apparatus, data distribution apparatus, and data

processing apparatus, authenticates said usage control policy data, and performs right processing

relating to said content data.

144. (Original) A data providing system as set forth in claim 143, wherein

said data providing apparatus encrypts using said key data and provides the result to said

data distribution apparatus and

said management apparatus manages said key data.

145. (Original) A data providing system as set forth in claim 143, wherein

each of said data providing apparatus and said data distribution apparatus generates its

own secret key data to be used for authentication with another apparatus, manages said generated

secret key data, generates public key data corresponding to said secret key data, and registers

said public key data, identification card, and settlement account to said management apparatus

and

said management apparatus generates public key certificate data certifying the legitimacy

of said public key data.

146. (Original) A data providing system as set forth in claim 145, wherein said

management apparatus allocates identification numbers to said data providing apparatus and said

data distribution apparatus in accordance with said registration and transmits to said data

providing apparatus and said data distribution apparatus public key data of a route certificate

authority and public key data of the management apparatus.

147. (Original) A data providing system as set forth in claim 145, wherein each of said

data providing apparatus and said data distribution apparatus further registers said secret key data

in said management apparatus.

148. (Original) A data providing system as set forth in claim 143, wherein said data

processing apparatus has stored in it in advance secret key data generated by said management

apparatus and public key data corresponding to said secret key data.

149. (Original) A data providing system as set forth in claim 148, wherein said data

processing apparatus has stored in it in advance public key certificate data certifying the

legitimacy of said public key data generated by said management apparatus.

150. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus,

said data processing apparatus uses said distributed content data, and

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

registers and serves usage control policy data indicating the handling of the related content data

from said data providing apparatus, and certifies the legitimacy of said usage control policy data

in response to a request from said data providing apparatus, and wherein

the transmission of data among said data providing apparatus, said data distribution

apparatus, said data processing apparatus, and said management apparatus is carried out by using

mutual authentication using a public key encryption method, signature creation, signature

verification, and encryption of data by a common key encryption method.

151. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus,

said data processing apparatus uses said distributed content data, and

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by itself by using its own

secret key data when each of said data providing apparatus, said data distribution apparatus, and

said data processing apparatus supplies the data to another apparatus, generates and manages

public key certificate data of public key data corresponding to secret key data of said data

providing apparatus, said data distribution apparatus, and said data processing apparatus when

the legitimacy of the signature data corresponding to the data is verified by using the public key

data of the related other apparatus when receiving the supply of the related data from the other

apparatus, registers and serves usage control policy data indicating the handling of the related

content data from said data providing apparatus, and certifies the legitimacy of said usage control

policy data in response to a request from said data providing apparatus, and wherein

said data providing apparatus, said data distribution apparatus, and said data processing

apparatus acquire said their own public key certificate data from said management apparatus

before communicating with the other apparatus and transmit the related acquired public key

certificate data to said other apparatus.

152. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus,

said data processing apparatus uses said distributed content data, and

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates the signature data indicating that the related data is generated by itself by using its own

secret key data when each of said data providing apparatus, said data distribution apparatus, and

said data processing apparatus supplies data to another apparatus, generates and manages public

key certificate data of public key data corresponding to secret key data of said data providing

apparatus, said data distribution apparatus, and said data processing apparatus when the

legitimacy of the signature data corresponding to the data is verified by using the public key data

of the related other apparatus when receiving the supply of the related data from the other

apparatus, registers and serves usage control policy data indicating the handling of the related

content data from said data providing apparatus, and certifies the legitimacy of said usage control

policy data in response to a request from said data providing apparatus, and wherein

said data providing apparatus, said data distribution apparatus, and said data processing

apparatus acquire their own public key certificate data from said management apparatus before

communicating with the other apparatus and transmit the related acquired public key certificate

data to said other apparatus at said communication.

153. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein:

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus,

said data processing apparatus uses said distributed content data, and

said management apparatus manages the operation of a data providing service by said data providing apparatus, said data distribution apparatus, and said data processing apparatus, generates signature data indicating that the related data is generated by itself by using its own secret key data when each of said data providing apparatus, said data distribution apparatus, and said data processing apparatus supplies data to another apparatus, generates and manages public key certificate data of public key data corresponding to secret key data of said data providing apparatus, said data distribution apparatus, and said data processing apparatus when the legitimacy of the signature data corresponding to the data is verified by using the public key data of the related other apparatus when receiving the supply of the related data from the other apparatus, generates public key certificate revocation list for specifying public key certificate data to be invalidated among said generated public key certificate data and thereby to restrict said communication or said distribution using public key certificate data specified by said public key certificate revocation list by said data providing apparatus, said data distribution apparatus, and said data processing apparatus, registers and serves usage control policy data indicating the handling of the related content data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus.

154. (Original) A data providing system as set forth in claim 153, wherein said management apparatus generates public key certificate revocation list specifying public key certificate data corresponding to said data providing apparatus, said data distribution apparatus, and said data processing apparatus used for illegal actions.

155. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein:

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus,

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data providing apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data providing apparatus for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data processing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus, and

said data processing apparatus verifies whether or not public key certificate data of said

data providing apparatus providing said distributed content data is invalid based on said public

key certificate revocation list distributed from said management apparatus and controls the usage

of said distributed content data based on the result of the related verification.

156. (Original) A data providing system as set forth in claim 155, wherein said

management apparatus directly distributes said public key certificate revocation list to said data

processing apparatus.

157. (Original) A data providing system as set forth in claim 155, wherein said

management apparatus distributes said public key certificate revocation list to said data

processing apparatus through said data distribution apparatus, by broadcasting, or by an on-

demand system.

158. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data providing apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data providing apparatus for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data distribution apparatus, registers and serves usage

control policy data indicating the handling of the related content data from said data providing

apparatus, and certifies the legitimacy of said usage control policy data in response to a request

from said data providing apparatus, and

said data distribution apparatus verifies whether or not public key certificate data of said

data providing apparatus providing said provided content data is invalid based on said public key

certificate revocation list distributed from said management apparatus, and controls the

distribution of said provided content data to said data processing apparatus based on the result of

the related verification.

159. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data distribution apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data distribution apparatus for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus verifies whether or not public key certificate data of the

data distribution apparatus of the destination of provision of the content data is invalid and

controls the provision of said content data to said data distribution apparatus based on the result

of the related verification,

said data distribution apparatus distributes said provided content data to said data

processing apparatus, and

said data processing apparatus uses said distributed content data.

160. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data distribution apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data distribution apparatus for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data distribution apparatus, registers and serves usage

control policy data indicating the handling of the related content data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request

from said data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said distributed public key certificate revocation list to said data processing apparatus, and

said data processing apparatus verifies whether or not public key certificate data of said data distribution apparatus distributing said distributed content data is invalid based on said distributed public key certificate revocation list and controls the usage of said distributed content data based on the result of the related verification.

- 161. (Original) A data providing system as set forth in claim 160, wherein said data distribution apparatus has a configuration which makes it difficult to tamper with said public key certificate revocation list distributed from said management apparatus.
  - 162. (Original) A data providing system as set forth in claim 160, wherein

said management apparatus encrypts said public key certificate revocation list using distribution key data and distributes it to said data distribution apparatus and distributes said distribution key data to said data processing apparatus and

said data processing apparatus decrypts said distributed public key certificate revocation list using said distribution key data.

163. (Original) A data providing system as set forth in claim 160, wherein said data distribution apparatus distributes said public key certificate revocation list to said data processing apparatus by broadcasting or by an on-demand system.

164. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data distribution apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data distribution apparatus for when another apparatus verifies the

legitimacy of the related signature data by using public key data corresponding to said secret key

data, generates public key certificate revocation list for specifying public key certificate data to

be invalidated among said generated public key certificate data, distributes the related public key

certificate revocation list to said data processing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus, and

said data processing apparatus verifies whether or not public key certificate data of said

data distribution apparatus distributing said distributed content data is invalid based on said

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distributed public key certificate revocation list and controls the usage of said distributed content

data based on the result of the related verification.

165. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus,

wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data distribution apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data distribution apparatus for when another apparatus verifies the

legitimacy of the related signature data by using public key data corresponding to said secret key

data, generates public key certificate revocation list for specifying public key certificate data to

be invalidated among said generated public key certificate data, distributes the related public key

certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data and said public key certificate

revocation list to said data distribution apparatus.

said data distribution apparatus distributes said provided content data and public key

certificate revocation list to said data processing apparatus, and

said data processing apparatus verifies whether or not public key certificate data of said

data distribution apparatus distributing said distributed content data is invalid based on said

distributed public key certificate revocation list and controls the usage of said distributed content

data based on the result of the related verification.

166. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a

management apparatus, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatuses,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when a data processing apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data processing apparatuses for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data and said public key certificate

revocation list to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and public key

certificate revocation list to said data processing apparatuses, and

said data processing apparatuses verify whether or not public key certificate data of said

other data processing apparatuses are invalid based on the public key certificate revocation list

distributed from said data distribution apparatus and control the communication with other data

processing apparatuses based on the result of the related verification.

167. (Original) A data providing system as set forth in claim 166, wherein said data

distribution apparatus has a configuration which makes it difficult to tamper with said public key

certificate revocation list distributed from said management apparatus.

168. (Original) A data providing system as set forth in claim 166, wherein

said management apparatus encrypts said public key certificate revocation list using

distribution key data and distributes it to said data distribution apparatus and distributes said

distribution key data to said data processing apparatus and

said data processing apparatus decrypts said distributed public key certificate revocation

list using said distribution key data.

169. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a

management apparatus, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatuses,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when a data processing apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data processing apparatuses for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said distributed

public key certificate revocation list to said data processing apparatuses, and

said data processing apparatuses verify whether or not public key certificate data of other

data processing apparatuses are invalid based on the public key certificate revocation list

distributed from said data distribution apparatus, and control the communication with other data

processing apparatuses based on the result of the related verification.

170. (Original) A data providing system as set forth in claim 169, wherein said data

distribution apparatus has a configuration which makes it difficult to tamper with said public key

certificate revocation list distributed from said management apparatus.

171. (Original) A data providing system as set forth in claim 169, wherein

said management apparatus encrypts said public key certificate revocation list using

distribution key data and distributes it to said data distribution apparatus and distributes said

distribution key data to said data processing apparatus and

said data processing apparatus decrypts said distributed public key certificate revocation

list using said distribution key data.

172. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a

management apparatus, wherein:

a data processing apparatus supplies registration data, indicating an already registered

data processing apparatus connected in a predetermined network to which is connected, to said

management apparatus, refers to a revocation flag in registration data supplied from said

management apparatus and restricts communication with another data processing apparatus

having public key certificate data indicated as invalid by the revocation flag,

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatuses,

generates and manages public key certificate data of public key data corresponding to secret key.

data for when a data processing apparatus generates signature data indicating legitimacy of data

using its own secret key data when supplying data to another apparatus, generates public key

certificate revocation list for specifying public key certificate data to be invalidated among said

generated public key certificate data, stores the related public key certificate revocation list,

generates new registration data by setting said revocation flag in said registration data supplied

from data processing apparatuses based on the related public key certificate revocation list,

distributes the related generated registration data to said data processing apparatuses, registers

and serves usage control policy data indicating the handling of the related content data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

and

said data distribution apparatus distributes said provided content data to said data

processing apparatuses.

173. (Previously Presented) A data providing system comprising a data providing

apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a

management apparatus, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatuses,

generates and manages public key certificate data of public key data corresponding to said secret

key data for when a data processing apparatus generates signature data indicating the legitimacy

of data by using its own secret key data when supplying the related data to another apparatus,

generates public key certificate revocation list for specifying public key certificate data to be

invalidated among said generated public key certificate data, distributes the related public key

certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data and said public key certificate revocation list to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said public key certificate revocation list to said data processing apparatuses, and

a data processing apparatus sets a revocation flag in registration data indicating an already registered data processing apparatus connected in a predetermined network to which it is connected based on said distributed public key certificate revocation list and restricts communication with another data processing apparatus having public key certificate data indicated as invalid by the related revocation flag.

174. (Previously Presented) A data providing system comprising a data providing apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a management apparatus, wherein:

said management apparatus manages the operation of a data providing service by said data providing apparatus, said data distribution apparatus, and said data processing apparatuses, generates and manages public key certificate data of public key data corresponding to secret key data for when a data processing apparatus generates signature data indicating the legitimacy of the data by using its own secret key data when supplying the related data to another apparatus, generates public key certificate revocation list for specifying public key certificate data to be invalidated among said generated public key certificate data, distributes the related public key certificate revocation list to said data distribution apparatus, registers and serves usage control policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said public key

certificate revocation list to said data processing apparatuses, and

a data processing apparatus sets a revocation flag in registration data indicating an

already registered data processing apparatus connected in a predetermined network to which it is

connected based on said distributed public key certificate revocation list and restricts

communication with another data processing apparatus having public key certificate data

indicated as invalid by the related revocation flag.

175. (Previously Presented) A data providing system comprising:

a data providing apparatus that provides content data and usage control policy data

indicating the handling of the related content data to said data distribution apparatus,

a data distribution apparatus that distributes said provided content data and said usage

control policy data to said data processing apparatus,

a data processing apparatus that has a first module for communicating with said data

distribution apparatus and a second module for determining at least one of a purchase mode and

usage mode of said distributed content data based on said distributed usage control policy data

and transmitting log data indicating the log of the related determined purchase mode and usage

mode to said management apparatus,

a management apparatus that manages the data providing apparatus, data distribution

apparatus, and data processing apparatus and

has a settlement function for performing profit distribution processing for distributing the profit obtained accompanied with said data processing apparatus receiving distribution of said content data and purchasing and using said content data to related parties of said data providing apparatus and said data distribution apparatus based on said log data received from said second module and performing settlement based on the result of the related profit distribution processing and a right management function for registering said usage control policy data,

wherein said data providing apparatus sends said usage control policy data and requests to said management apparatus to certify legitimacy of said usage control policy data, and wherein said management apparatus registers and serves said usage control policy data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus.

- 176. (Original) A data providing system as set forth in claim 175, wherein said management apparatus has
  - a first management apparatus having a settlement function and
  - a second management apparatus having a right management function.
- 177. (Original) A data providing system as set forth in claim 175, wherein said settlement is electronic settlement.
  - 178. (Previously Presented) A data providing system comprising:
- a data providing apparatus that provides content data and usage control policy data indicating the handling of the related content data to said data distribution apparatus,
- a data distribution apparatus that has a charging function for performing settlement processing by using settlement claim data distributed from said management apparatus and

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distributes said provided content data and said usage control policy data to said data processing

apparatus,

a data processing apparatus that has a first module for communicating with said data

distribution apparatus and a second module for determining at least one of a purchase mode and

usage mode of said distributed content data based on said distributed usage control policy data

and transmitting log data indicating the log of the related determined purchase mode and usage

mode to said management apparatus,

a management apparatus that manages the data providing apparatus, data distribution

apparatus, and data processing apparatus and

has a settlement claim data creation function for performing profit distribution processing

for distributing the profit obtained accompanied with said data processing apparatus receiving

distribution of said content data and purchasing and using said content data to related parties of

said data providing apparatus and said data distribution apparatus based on said log data received

from said second module, creating settlement claim data used when performing settlement based

on the result of the related profit distribution processing, and supplying the same to said data

distribution apparatus and a right management function for registering said usage control policy

data,

wherein said data providing apparatus sends said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus registers and serves said usage control policy data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus.

179. (Previously Presented) A data providing system comprising:

a data providing apparatus that has a charging function for performing settlement

processing by using settlement claim data distributed from said management apparatus and

provides content data and usage control policy data indicating the handling of the related content

data to said data distribution apparatus,

a data distribution apparatus that distributes said provided content data and said usage

control policy data to said data processing apparatus,

a data processing apparatus that has a first module for communicating with said data

distribution apparatus and a second module for determining at least one of a purchase mode and

usage mode of said distributed content data based on said distributed usage control policy data

and transmitting log data indicating the log of the related determined purchase mode and usage

mode to said management apparatus,

a management apparatus that manages the data providing apparatus, data distribution

apparatus, and data processing apparatus and

has a settlement claim data creation function for performing profit distribution processing

for distributing the profit obtained accompanied with said data processing apparatus receiving

said distribution of said content data and purchasing and using said content data to related parties

of said data providing apparatus and said data distribution apparatus based on said log data

received from said second module, creating settlement claim data used when performing

settlement based on the result of the related profit distribution processing, and distributing the

same to said data providing apparatus and a right management function for registering said usage

control policy data,

wherein said data providing apparatus sends said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus registers and serves said usage control policy data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus.

180. (Previously Presented) A data providing method using a data providing

apparatus, data processing apparatus, and management apparatus comprising the steps of

distributing content data and usage control policy data indicating the handling of the

related content data from said data providing apparatus to said data processing apparatus,

determining at least one of the purchase mode and the usage mode of said distributed

content data based on said distributed usage control policy data and transmitting log data

indicating the log of at least one of the related determined purchase mode and usage mode to said

management apparatus at said data processing apparatus,

registering and serving said usage control policy data from said data providing apparatus,

certifies the legitimacy of said usage control policy data in response to a request from

said data providing apparatus, and

performing profit distribution processing for distributing the profit obtained accompanied

with said purchase and said usage of said content data in said data processing apparatus to related

parties of said data providing apparatus based on said received log data at said management

apparatus.

181. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus

comprising the steps of:

providing content data and usage control policy data indicating the handling of the related

content data from said data providing apparatus to said data distribution apparatus,

distributing said provided content data and said usage control policy data from said data

distribution apparatus to said data processing apparatus,

determining at least one of the purchase mode and the usage mode of said distributed

content data based on said distributed usage control policy data and transmitting log data

indicating the log of the related determined purchase mode and usage mode to said management

apparatus at said data processing apparatus,

registering and serving said usage control policy data from said data providing apparatus,

certifies the legitimacy of said usage control policy data in response to a request from

said data providing apparatus, and

performing profit distribution processing for distributing the profit obtained accompanied

with said data processing apparatus receiving said distribution of said content data and

purchasing and using said content data to related parties of said data providing apparatus and

said data distribution apparatus based on said log data received from said second module at said

management apparatus.

182. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus

comprising the steps of:

providing content data and usage control policy data indicating the handling of the related

content data from said data providing apparatus to said data distribution apparatus,

distributing said content data and said usage control policy data provided from said data

distribution apparatus to said data processing apparatus to said data processing apparatus,

generating data distribution apparatus use purchase log data indicating the log of the

purchase of said content data distributed from said data distribution apparatus and transmitting

the same to said data distribution apparatus, determining at least one of a purchase mode and

usage mode of said distributed content data based on said distributed usage control policy data,

and transmitting management apparatus use log data indicating the log of the related determined

purchase mode and usage mode to said management apparatus at said data processing apparatus,

distributing the profit obtained accompanied with said purchase and said usage of said

content data in said data processing apparatus to related parties of said data providing apparatus

and said data distribution apparatus based on said management apparatus use log data at said

management apparatus,

registering and serving said usage control policy data from said data providing apparatus,

certifies the legitimacy of said usage control policy data in response to a request from

said data providing apparatus, and

performing charging processing concerning the distribution of said content data based on

the data distribution apparatus use purchase log data received from said data processing

apparatus at said data distribution apparatus.

183. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus, and

said data processing apparatus manages the operation of a data provision service by said

data providing apparatus, data distribution apparatus, and data processing apparatus, and

said management apparatus manages operation of a data providing service by said data

providing apparatus, said data distribution apparatus, and said data processing apparatus,

registers and serves usage control policy data indicating the handling of the related content data

from said data providing apparatus, and certifies the legitimacy of said usage control policy data

in response to a request from said data providing apparatus, and wherein

the transmission of data among said data providing apparatus, said data distribution

apparatus, said data processing apparatus, and said management apparatus is carried out by using

mutual authentication using a public key encryption method, signature creation, signature

verification, and encryption of data by a common key encryption method.

184. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data processing apparatus,

said data processing apparatus uses said distributed content data, and

said management apparatus manages the operation of a data providing service by said data providing apparatus, said data distribution apparatus, and said data processing apparatus, generates signature data indicating that the related data is generated by itself by using its own secret key data when each of said data providing apparatus, said data distribution apparatus, and said data processing apparatus supplies the data to another apparatus, generates and manages public key certificate data of public key data corresponding to secret key data of said data providing apparatus, said data distribution apparatus, and said data processing apparatus when the legitimacy of the signature data corresponding to the data is verified by using the public key data of the related other apparatus when receiving the supply of the related data from the other apparatus, registers and serves usage control policy data indicating the handling of the related content data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus, and wherein

said data providing apparatus, said data distribution apparatus, and said data processing apparatus acquire said their own public key certificate data from said management apparatus before communicating with the other apparatus and transmit the related acquired public key certificate data to said other apparatus.

185. (Previously Presented) A data providing method using a data providing apparatus, data distribution apparatus, data processing apparatus, and management apparatus to provide content data, wherein

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data processing apparatus,

said data processing apparatus uses said distributed content data, and

said management apparatus manages the operation of a data providing service by said data providing apparatus, said data distribution apparatus, and said data processing apparatus, generates the signature data indicating that the related data is generated by itself by using its own secret key data when each of said data providing apparatus, said data distribution apparatus, and said data processing apparatus supplies data to another apparatus, generates and manages public key certificate data of public key data corresponding to secret key data of said data providing apparatus, said data distribution apparatus, and said data processing apparatus when the legitimacy of the signature data corresponding to the data is verified by using the public key data of the related other apparatus when receiving the supply of the related data from the other apparatus, registers and serves usage control policy data indicating the handling of the related content data from said data providing apparatus, and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus, and wherein

said data providing apparatus, said data distribution apparatus, and said data processing apparatus acquire their own public key certificate data from said management apparatus when communicating with the other apparatus and transmit the related acquired public key certificate data to said other apparatus at said communication.

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186. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein:

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus,

said data processing apparatus uses said distributed content data, and

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by itself by using its own

secret key data when each of said data providing apparatus, said data distribution apparatus, and

said data processing apparatus supplies data to another apparatus, generates and manages public

key certificate data of public key data corresponding to secret key data of said data providing

apparatus, said data distribution apparatus, and said data processing apparatus when the

legitimacy of the signature data corresponding to the data is verified by using the public key data

of the related other apparatus when receiving the supply of the related data from the other

apparatus, generates public key certificate revocation list for specifying public key certificate

data to be invalidated among said generated public key certificate data and thereby to restrict

said communication or said distribution using public key certificate data specified by said public

key certificate revocation list by said data providing apparatus, said data distribution apparatus,

and said data processing apparatus, registers and serves usage control policy data indicating the

handling of the related content data from said data providing apparatus, and certifies the

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legitimacy of said usage control policy data in response to a request from said data providing

apparatus.

187. (Original) A data providing method as set forth in claim 186, wherein said

management apparatus generates public key certificate revocation list specifying public key

certificate data corresponding to said data providing apparatus, said data distribution apparatus,

and said data processing apparatus used for illegal actions.

188. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein:

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus,

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data providing apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data providing apparatus for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data processing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus, and

said data processing apparatus verifies whether or not public key certificate data of said

data providing apparatus providing said distributed content data is invalid based on said public

key certificate revocation list distributed from said management apparatus and controls the usage

of said distributed content data based on the result of the related verification.

189. (Original) A data providing method as set forth in claim 188, wherein said

management apparatus directly distributes said public key certificate revocation list to said data

processing apparatus.

190. (Original) A data providing method as set forth in claim 188, wherein said

management apparatus distributes said public key certificate revocation list to said data

processing apparatus through said data distribution apparatus, by broadcasting, or by an on-

demand system.

191. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data providing apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data providing apparatus for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data distribution apparatus, registers and serves usage

control policy data indicating the handling of the related content data from said data providing

apparatus, and certifies the legitimacy of said usage control policy data in response to a request

from said data providing apparatus, and

said data distribution apparatus verifies whether or not public key certificate data of said

data providing apparatus providing said provided content data is invalid based on said public key

certificate revocation list distributed from said management apparatus, and controls the

distribution of said provided content data to said data processing apparatus based on the result of

the related verification.

192. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data distribution apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data distribution apparatus for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus verifies whether or not public key certificate data of the

data distribution apparatus of the destination of provision of the content data is invalid and

controls the provision of said content data to said data distribution apparatus based on the result

of the related verification,

said data distribution apparatus distributes said provided content data to said data

processing apparatus, and

said data processing apparatus uses said distributed content data.

193. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data distribution apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data distribution apparatus for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data distribution apparatus, registers and serves usage

control policy data indicating the handling of the related content data from said data providing

apparatus, and certifies the legitimacy of said usage control policy data in response to a request

from said data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said distributed

public key certificate revocation list to said data processing apparatus, and

said data processing apparatus verifies whether or not public key certificate data of said

data distribution apparatus distributing said distributed content data is invalid based on said

distributed public key certificate revocation list and controls the usage of said distributed content

data based on the result of the related verification.

194. (Original) A data providing method as set forth in claim 193, wherein said data

distribution apparatus has a configuration which makes it difficult to tamper with said public key

certificate revocation list distributed from said management apparatus.

195. (Original) A data providing method as set forth in claim 193, wherein

said management apparatus encrypts said public key certificate revocation list using

distribution key data and distributes it to said data distribution apparatus and distributes said

distribution key data to said data processing apparatus and

said data processing apparatus decrypts said distributed public key certificate revocation

list using said distribution key data.

196. (Original) A data providing method as set forth in claim 160, wherein said data

distribution apparatus distributes said public key certificate revocation list to said data processing

apparatus by broadcasting or by an on-demand system.

197. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data distribution apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data distribution apparatus for when another apparatus verifies the

legitimacy of the related signature data by using public key data corresponding to said secret key

data, generates public key certificate revocation list for specifying public key certificate data to

be invalidated among said generated public key certificate data, distributes the related public key

certificate revocation list to said data processing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data to said data

processing apparatus, and

said data processing apparatus verifies whether or not public key certificate data of said

data distribution apparatus distributing said distributed content data is invalid based on said

distributed public key certificate revocation list and controls the usage of said distributed content

data based on the result of the related verification.

198. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatus,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when said data distribution apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data distribution apparatus for when another apparatus verifies the

legitimacy of the related signature data by using public key data corresponding to said secret key

data, generates public key certificate revocation list for specifying public key certificate data to

be invalidated among said generated public key certificate data, distributes the related public key

certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data and said public key certificate

revocation list to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and public key

certificate revocation list to said data processing apparatus, and

said data processing apparatus verifies whether or not public key certificate data of said

data distribution apparatus distributing said distributed content data is invalid based on said

distributed public key certificate revocation list and controls the usage of said distributed content

data based on the result of the related verification.

199. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a

management apparatus to provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatuses,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when a data processing apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data processing apparatuses for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said data providing apparatus,

said data providing apparatus provides content data and said public key certificate revocation list to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and public key certificate revocation list to said data processing apparatuses, and

said data processing apparatuses verify whether or not public key certificate data of said other data processing apparatuses are invalid based on the public key certificate revocation list distributed from said data distribution apparatus and control the communication with other data processing apparatuses based on the result of the related verification.

- 200. (Original) A data providing method as set forth in claim 199, wherein said data distribution apparatus has a configuration which makes it difficult to tamper with said public key certificate revocation list distributed from said management apparatus.
  - 201. (Original) A data providing method as set forth in claim 199, wherein

said management apparatus encrypts said public key certificate revocation list using distribution key data and distributes it to said data distribution apparatus and distributes said distribution key data to said data processing apparatus and

said data processing apparatus decrypts said distributed public key certificate revocation list using said distribution key data.

202. (Previously Presented) A data providing method using a data providing apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a management apparatus to provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatuses,

generates signature data indicating that the related data is generated by an apparatus itself by

using its own secret key data when a data processing apparatus supplies data to another

apparatus, generates and manages public key certificate data of public key data corresponding to

secret key data of said data processing apparatuses for when another apparatus verifies the

legitimacy of the related signature data by using the public key data corresponding to said secret

key data, generates public key certificate revocation list for specifying public key certificate data

to be invalidated among said generated public key certificate data, distributes the related public

key certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said distributed

public key certificate revocation list to said data processing apparatuses, and

said data processing apparatuses verify whether or not public key certificate data of other

data processing apparatuses are invalid based on the public key certificate revocation list

distributed from said data distribution apparatus, and control the communication with other data

processing apparatuses based on the result of the related verification.

203. (Original) A data providing method as set forth in claim 202, wherein said data distribution apparatus has a configuration which makes it difficult to tamper with said public key certificate revocation list distributed from said management apparatus.

204. (Original) A data providing method as set forth in claim 202, wherein

said management apparatus encrypts said public key certificate revocation list using distribution key data and distributes it to said data distribution apparatus and distributes said distribution key data to said data processing apparatus and

said data processing apparatus decrypts said distributed public key certificate revocation list using said distribution key data.

205. (Previously Presented) A data providing method using a data providing apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a management apparatus to provide content data, wherein:

a data processing apparatus supplies registration data, indicating an already registered data processing apparatus connected in a predetermined network to which is connected, to said management apparatus, refers to a revocation flag in registration data supplied from said management apparatus and restricts communication with another data processing apparatus having public key certificate data indicated as invalid by the revocation flag,

said management apparatus manages the operation of a data providing service by said data providing apparatus, said data distribution apparatus, and said data processing apparatuses, generates and manages public key certificate data of public key data corresponding to secret key data for when a data processing apparatus generates signature data indicating legitimacy of data using its own secret key data when supplying data to another apparatus, generates public key

certificate revocation list for specifying public key certificate data to be invalidated among said

generated public key certificate data, stores the related public key certificate revocation list,

generates new registration data by setting said revocation flag in said registration data supplied

from data processing apparatuses based on the related public key certificate revocation list,

distributes the related generated registration data to said data processing apparatuses, registers

and serves usage control policy data indicating the handling of the related content data from said

data providing apparatus, and certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

and

said data distribution apparatus distributes said provided content data to said data

processing apparatuses.

206. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a

management apparatus to provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatuses,

generates and manages public key certificate data of public key data corresponding to said secret

key data for when a data processing apparatus generates signature data indicating the legitimacy

of data by using its own secret key data when supplying the related data to another apparatus,

generates public key certificate revocation list for specifying public key certificate data to be

invalidated among said generated public key certificate data, distributes the related public key

certificate revocation list to said data providing apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data and said public key certificate

revocation list to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said public key

certificate revocation list to said data processing apparatuses, and

a data processing apparatus sets a revocation flag in registration data indicating an

already registered data processing apparatus connected in a predetermined network to which it is

connected based on said distributed public key certificate revocation list and restricts

communication with another data processing apparatus having public key certificate data

indicated as invalid by the related revocation flag.

207. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, a plurality of data processing apparatuses, and a

management apparatus to provide content data, wherein:

said management apparatus manages the operation of a data providing service by said

data providing apparatus, said data distribution apparatus, and said data processing apparatuses,

generates and manages public key certificate data of public key data corresponding to secret key

data for when a data processing apparatus generates signature data indicating the legitimacy of

the data by using its own secret key data when supplying the related data to another apparatus,

generates public key certificate revocation list for specifying public key certificate data to be

invalidated among said generated public key certificate data, distributes the related public key

certificate revocation list to said data distribution apparatus, registers and serves usage control

policy data indicating the handling of the related content data from said data providing apparatus,

and certifies the legitimacy of said usage control policy data in response to a request from said

data providing apparatus,

said data providing apparatus provides content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said public key

certificate revocation list to said data processing apparatuses, and

a data processing apparatus sets a revocation flag in registration data indicating an

already registered data processing apparatus connected in a predetermined network to which it is

connected based on said distributed public key certificate revocation list and restricts

communication with another data processing apparatus having public key certificate data

indicated as invalid by the related revocation flag.

208. (Previously Presented) A data providing method using a data providing

apparatus, data distribution apparatus, data processing apparatus, and management apparatus to

provide content data, wherein:

said data providing apparatus provides content data and usage control policy data

indicating the handling of the related content data to said data distribution apparatus,

said data distribution apparatus distributes said provided content data and said usage

control policy data to said data processing apparatus,

said data processing apparatus has a first module for communicating with said data

distribution apparatus and a second module for determining at least one of a purchase mode and

usage mode of said distributed content data based on said distributed usage control policy data

and transmitting log data indicating the log of the related determined purchase mode and usage

mode to said management apparatus,

said management apparatus manages the data providing apparatus, data distribution

apparatus, and data processing apparatus, registers and serves usage control policy data

indicating the handling of the related content data from said data providing apparatus, and

certifies the legitimacy of said usage control policy data in response to a request from said data

providing apparatus, and

has a settlement function for performing profit distribution processing for distributing the

profit obtained accompanied with said data processing apparatus receiving distribution of said

content data and purchasing and using said content data to related parties of said data providing

apparatus and said data distribution apparatus based on said log data received from said second

module and performing settlement based on the result of the related profit distribution processing

and a right management function for registering said usage control policy data.

209. (New) A data providing system comprising:

a data providing apparatus that distributes content data and usage control policy data

indicating the handling of the related content data to said data processing apparatus,

a data processing apparatus that uses said distributed content data based on said

distributed usage control policy data, and

a management apparatus that manages said data providing apparatus and said data

processing apparatus,

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wherein said data providing apparatus creates said usage control policy data and requests

to said management apparatus to certify legitimacy of said usage control policy data, and

wherein said management apparatus certifies the legitimacy of said usage control policy data in

response to a request from said data providing apparatus by verifying the legitimacy of said

usage control policy data and registering authorized usage control policy data in database.